

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)**Applicant(s): **Xiang LI et al.**

Docket No.

**133697-0022**

Application No.

**10/567,413 ✓**

Filing Date

**February 3, 2006**

Examiner

**Unknown**

Customer No.

**35684**

Group Art Unit

**Unknown**

Invention: **THE PREPARATION METHOD OF OUTSIDE-IN POLY VINYLIDENE FLUORIDE HOLLOW FIBER MEMBRANE SPINNED UTILIZING A IMMERSION-COAGULATION METHOD AND THE PRODUCT THEREOF**



I hereby certify that this **IDS (w/8 Patent and 5 non-patent reference copies and Form PTO-1449 (3 Sheets))**  
(Identify type of correspondence)

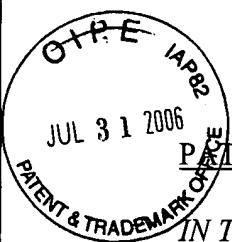
is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on  
**July 28, 2006**  
(Date)

**Michael S. Gzybowski**

(Typed or Printed Name of Person Mailing Correspondence)

(Signature of Person Mailing Correspondence)

Note: Each paper must have its own certificate of mailing.



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group  
Art Unit: Unknown  
  
Attorney  
Docket No.: 133697-0022  
  
Applicant: Xiang LI et al.

Invention: THE PREPARATION METHOD OF  
OUTSIDE-IN POLY VINYLIDENE  
FLUORIDE HOLLOW FIBER  
MEMBRANE SPINNED  
UTILIZING A IMMERSION-  
COAGULATION METHOD AND  
THE PRODUCT THEREOF

Serial No: 10/567,413  
  
Filed: February 3, 2006  
  
Examiner: Unknown

Certificate Of Mailing Under 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on November 13, 2003.

  
Michael S. Gzybowski

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

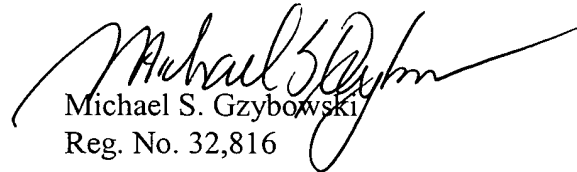
Sir:

Applicants wish to bring to the attention of the Examiner the documents identified on the attached form PTO-1449. Applicants respectfully request that these documents be made of record in the present application.

This Information Disclosure Statement is being filed after three months of the U.S. filing date, but before the mailing date of the first Office Action on the merits. No certification or fee is required.

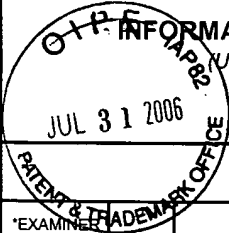
Please charge the any fees due in connection with the filing of this paper to Deposit  
Account No. 12-2136 and please credit any excess fees to such deposit account.

Respectfully submitted,



Michael S. Gzybowski  
Reg. No. 32,816

BUTZEL LONG  
350 South Main Street  
Suite 300  
Ann Arbor, Michigan 48104  
(734) 995-3110

 <p><b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)</p>				ATTY DOCKET NO. <b>133697-0022</b>		APPLICATION NO. <b>10/567,413</b>	
				APPLICANT(S) <b>Xiang LI et al.</b>			
				FILING DATE <b>February 3, 2006</b>		GROUP ART UNIT <b>Unknown</b>	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,399,035	08-16-1983	Nohmi et al.			
		6,299,773	10-09-2001	Takamura et al.			
		6,596,167	07-22-2003	Ji et al.			
		5,698,101	12-16-1997	Kopp et al.			
		5,514,461	05-07-1996	Meguro et al.			
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2003/0094409	05-22-2003	Minegishi et al.			
		2004/0191894	09-30-2004	Muller et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
			Jian et al., "Asymmetric PVDF Hollow-Fiber Membranes for Organic/Water Pervaporation Separations," Journal of Membrane Science Volume 135, Issue 1 12 November 1997, Pages 41-53				
			D. Wang et al., "Porous PVDF Asymmetric Hollow Fiber Membranes Prepared with the use of Small Molecular Additives," Journal of Membrane Science Volume 178, Issues 1-2 15 September 2000, Pages 13-23				
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. <b>133697-0022</b>	APPLICATION NO. <b>10/567,413</b>
	Xiang LI et al.	
	FILING <b>February 3, 2006</b>	GROUP ART <b>Unknown</b>

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,489,406	02-06-1996	Beck et al.			

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		D. Wang et al., "Preparation and Characterization of Polyvinylidene Fluoride (PVDF) Hollow Fiber Membranes," Journal of Membrane Science Volume 163, Issue 2, 1 November 1999, Pages 211-220
		D. Lin et al., "Microporous PVDF Membrane Formation by Immersion Precipitation from Water/TEP/PVDF System," Desalination 145 (2002) 25-29

EXAMINER	DATE CONSIDERED
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE CITATION***(Use several sheets if necessary)*ATTY DOCKET NO.  
**133697-0022**APPLICATION NO.  
**10/567,413****Xiang LI et al.**FILING  
**February 3, 2006**GROUP ART  
**Unknown****U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

			M. Khayet et al., "Preparation and Characterization of Polyvinylidene Fluoride Hollow Fiber Membranes for Ultrafiltration," Polymer Volume 43, Issue 14 June 2002, Pages 3879-3890

**EXAMINER****DATE CONSIDERED**

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.